

7
UNITED STATES
DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

J.H.P.
Pasture Canyon
[Handwritten mark]

File

Window Rock, Arizona

April 3, 1939.

MEMORANDUM TO JOHN H. PROVINSE

FROM: Howard F. Johnson

SUBJECT: Pasture Canyon planting area

Attached is a copy of the results of the water
table and alkali studies of the above area.

Howard F. Johnson

Howard F. Johnson
Junior Soil Surveyor

cc Leo R. Kenefick

C. W. Wright

C. H. Powers

T. C. 2359

PASTURE CANYON SAMPLES

Lab. No.	Field No. and Location	Depth	% T.S.S.	% Sand	% Silt	% Clay	% Dispersion	% T.S. Grav.	P.P.L. Na ₂ CO ₃
R-2529	1A	0-6"	.13	95.7	1.5	2.8	40.0	.15	62
R-2530	1B	6-22"	.02	93.0	3.3	3.7	37.8	.23	0
R-2531	1C	22-36"	.07	78.4	8.4	13.2	14.8	.20	0
R-2532	2A	0-6"	.08	96.3	0.7	3.0	61.8	.30	83
R-2533	2B	6-36"	.19	85.8	9.7	4.5	90.8	.32	557
R-2534	3A	0-6"	2.40	72.7	11.6	15.7	72.3	.27	908
R-2535	3B	6-48"	.15	90.8	5.2	4.0	85.0	.23	0
R-2536	4A	0-6"	.14	78.8	9.9	11.3	43.3	.84	46
R-2537	4B	6-18"	.50	90.0	3.8	6.2	84.0	.38	62
R-2538	4C	18-36"	.12	76.7	11.6	11.7	40.2	.24	0
R-2539	5A	0-6"	.19	82.8	9.5	7.7	50.9	.23	17
R-2540	5B	6-24"	.10	68.4	21.3	10.3	18.7	.22	Tr
R-2541	6A	0-6"	.13	96.7	0.5	2.8	60.6	.21	0
R-2542	6B	6-12"	.06	95.7	1.5	2.8	78.1	.18	0
R-2543	7A	0-6"	.14	96.3	1.0	2.7	68.5	.22	21
R-2544	8A	0-6"	.14	80.3	13.4	6.3	48.6	.16	0

PASTURE CANYON WATER TABLE

Pasture Canyon is located approximately one mile east of Tuba City, Arizona. Study was made of that portion below Hopi Reservoir to establish the depth of the ground water for the purpose of determining whether or not tree roots could reach it.

The contours on the accompanying map indicate the depth of the water table as of March 9, 1939. The water table is probably at its highest level this time of year and is expected to lower as the water in the reservoir is lowered during the summer months.

Soil samples collected for the purpose of determining the amount and kind of toxic salts indicate that the total salts are generally low; however, sodium carbonate, or black alkali, is present in sufficient quantities to render portions of the area questionable for tree planting. These areas are indicated by the letter "A" on the map.

T. C. 2360